

P0710

Serial Number: 10/018,483

1/19/2002

CRF Processing Date:

Edited by:

Verified by:

(STIC staff)

ENTERED

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_.

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  page numbers throughout text;  other invalid text, such as \_\_\_\_\_.

Inserted mandatory headings, specifically:

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_

Other:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



PCT10

RAW SEQUENCE LISTING DATE: 01/19/2002  
 PATENT APPLICATION: US/10/018,483 TIME: 14:44:31

Input Set : A:\PTO.AMC.txt  
 Output Set: N:\CRF3\01182002\J018483.raw

2 <110> APPLICANT: Merck Patent GmbH  
 4 <120> TITLE OF INVENTION: Acute Neuronal Calcium Binding Protein  
 6 <130> FILE REFERENCE: ANICBPJDDWS  
 C--> 8 <140> CURRENT APPLICATION NUMBER: US/10/018,483  
 C--> 9 <141> CURRENT FILING DATE: 2001-12-19  
 W--> 10 <160> NUMBER OF SEQ ID: 2  
 12 <170> SOFTWARE: PatentIn Ver. 2.1  
 14 <210> SEQ ID NO: 1  
 15 <211> LENGTH: 1026  
 16 <212> TYPE: DNA  
 17 <213> ORGANISM: Homo sapiens  
 19 <220> FEATURE:  
 20 <221> NAME/KEY: CDS  
 21 <222> LOCATION: (1)..(1026)  
 23 <400> SEQUENCE: 1  
 24 atg ccg ttc ccg ttt ggg aag tct cac aaa tct cca gca gac att gtg 48  
 25 Met Pro Phe Pro Phe Gly Lys Ser His Lys Ser Pro Ala Asp Ile Val  
 26 1 5 10 15  
 28 aag aat ctg aag gag agc atg gct gtt ctg gaa aag caa gac att tct 96  
 29 Lys Asn Leu Lys Glu Ser Met Ala Val Leu Glu Lys Gln Asp Ile Ser  
 30 20 25 30  
 32 gat aaa aaa gca gaa aag gct aca gaa gaa gtt tcc aaa aat ctg gtt 144  
 33 Asp Lys Lys Ala Glu Lys Ala Thr Glu Glu Val Ser Lys Asn Leu Val  
 34 35 40 45  
 36 gcc atg aaa gaa att ctg tat ggc aca aat gaa aaa gag cct cag aca 192  
 37 Ala Met Lys Glu Ile Leu Tyr Gly Thr Asn Glu Lys Glu Pro Gln Thr  
 38 50 55 60  
 40 gaa gca gta gct caa ctt gct caa gaa ctc tat aat agt ggg ctc ctt 240  
 41 Glu Ala Val Ala Gln Leu Ala Gln Glu Leu Tyr Asn Ser Gly Leu Leu  
 42 65 70 75 80  
 44 agc acc ctg gta gct gat tta cag ctc att gac ttt gag ggc aaa aaa 288  
 45 Ser Thr Leu Val Ala Asp Leu Gln Leu Ile Asp Phe Glu Gly Lys Lys  
 46 85 90 95  
 48 gac gtg gct caa att ttc aac aat att ctc aga aga caa att ggt acg 336  
 49 Asp Val Ala Gln Ile Phe Asn Asn Ile Leu Arg Arg Gln Ile Gly Thr  
 50 100 105 110  
 52 aga act cct act gtt gaa tac atc tgc acc caa cag aat att ttg ttc 384  
 53 Arg Thr Pro Thr Val Glu Tyr Ile Cys Thr Gln Gln Asn Ile Leu Phe  
 54 115 120 125  
 56 atg tta ttg aaa ggg tat gaa tct cca gaa ata gct cta aat tgt gga 432  
 57 Met Leu Leu Lys Gly Tyr Glu Ser Pro Glu Ile Ala Leu Asn Cys Gly  
 58 130 135 140  
 61 ata atg tta aga gaa tgc atc aga cat gaa cca ctt gca aaa atc att 480

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/018,483

DATE: 01/19/2002  
TIME: 14:44:31

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\01182002\J018483.raw

62	Ile	Met	Leu	Arg	Glu	Cys	Ile	Arg	His	Glu	Pro	Leu	Ala	Lys	Ile	Ile		
63	145				150					155						160		
65	ttg	tgg	tcg	gaa	cag	ttt	tat	gat	ttc	ttc	aga	tat	gtc	gaa	atg	tca	528	
66	Leu	Trp	Ser	Glu	Gln	Phe	Tyr	Asp	Phe	Phe	Arg	Tyr	Val	Glu	Met	Ser		
67					165					170						175		
69	aca	ttt	gac	ata	gct	tca	gat	gca	ttt	gcc	aca	ttc	aag	gat	tta	ctt	576	
70	Thr	Phe	Asp	Ile	Ala	Ser	Asp	Ala	Phe	Ala	Thr	Phe	Lys	Asp	Leu	Leu		
71					180					185						190		
73	aca	aga	cat	aaa	ttg	ctc	agt	gca	gaa	ttt	ttg	gaa	cag	cat	tat	gtat	624	
74	Thr	Arg	His	Lys	Leu	Leu	Ser	Ala	Glu	Phe	Leu	Glu	Gln	His	Tyr	Asp		
75					195					200						205		
77	aga	ttt	ttc	agt	gaa	tat	gag	aag	tta	ctt	cat	tca	gaa	aat	tat	gtg	672	
78	Arg	Phe	Phe	Ser	Glu	Tyr	Glu	Lys	Leu	Leu	His	Ser	Glu	Asn	Tyr	Val		
79					210					215						220		
81	aca	aaa	aga	cag	tca	ctg	aag	ctt	ctc	ggt	gaa	cta	cta	cta	gat	aga	720	
82	Thr	Lys	Arg	Gln	Ser	Leu	Lys	Leu	Leu	Gly	Glu	Leu	Leu	Leu	Asp	Arg		
83					225					230						240		
85	cac	aac	ttc	aca	att	atg	aca	aaa	tac	atc	agt	aaa	cct	gag	aac	ctc	768	
86	His	Asn	Phe	Thr	Ile	Met	Thr	Lys	Tyr	Ile	Ser	Lys	Pro	Glu	Asn	Leu		
87					245					250						255		
89	aaa	tta	atg	atg	aac	ctg	ctg	cga	gac	aaa	agt	cgc	aac	atc	cag	ttt	816	
90	Lys	Leu	Met	Met	Asn	Leu	Leu	Arg	Asp	Lys	Ser	Arg	Asn	Ile	Gln	Phe		
91					260					265						270		
93	gag	gcc	ttt	cac	gtt	ttt	aag	gtg	ttt	gta	gcc	aat	cct	aac	aag	acg	864	
94	Glu	Ala	Phe	His	Val	Phe	Lys	Val	Phe	Val	Ala	Asn	Pro	Asn	Lys	Thr		
95					275					280						285		
97	cag	ccc	atc	cta	gac	atc	ctc	aag	aac	cag	gcc	aaa	ctc	ata	gag		912	
98	Gln	Pro	Ile	Leu	Asp	Ile	Leu	Leu	Lys	Asn	Gln	Ala	Lys	Leu	Ile	Glu		
99					290					295						300		
101	ttc	ctc	agc	aag	ttt	cag	aac	gac	agg	acg	gag	gat	gag	cag	ttt	aac	960	
102	Phe	Leu	Ser	Lys	Phe	Gln	Asn	Asp	Arg	Thr	Glu	Asp	Glu	Gln	Phe	Asn		
103					305					310						315	320	
105	gac	gag	aag	acc	tat	tta	gtt	aaa	cag	atc	agg	gat	ttg	aag	aga	cca	1008	
106	Asp	Glu	Lys	Thr	Tyr	Leu	Val	Lys	Gln	Ile	Arg	Asp	Leu	Lys	Arg	Pro		
107					325					330						335		
109	gct	cag	caa	gaa	gct	taa											1026	
110	Ala	Gln	Gln	Glu	Ala													
111					340													
116	<210>	SEQ	ID	NO:	2													
117	<211>	LENGTH:	341															
118	<212>	TYPE:	PRT															
119	<213>	ORGANISM:	Homo sapiens															
121	<400>	SEQUENCE:	2															
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123	1				5					10						15		
124	Lys	Asn	Leu	Lys	Glu	Ser	Met	Ala	Val	Leu	Glu	Lys	Gln	Asp	Ile	Ser		
125					20					25						30		
126	Asp	Lys	Lys	Ala	Glu	Lys	Ala	Thr	Glu	Glu	Val	Ser	Lys	Asn	Leu	Val		
127					35					40						45		

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/018,483

DATE: 01/19/2002  
TIME: 14:44:31

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\01182002\J018483.raw

128 Ala Met Lys Glu Ile Leu Tyr Gly Thr Asn Glu Lys Glu Pro Gln Thr  
129 50 55 60  
130 Glu Ala Val Ala Gln Leu Ala Gln Glu Leu Tyr Asn Ser Gly Leu Leu  
131 65 70 75 80  
132 Ser Thr Leu Val Ala Asp Leu Gln Leu Ile Asp Phe Glu Gly Lys Lys  
133 85 90 95  
134 Asp Val Ala Gln Ile Phe Asn Asn Ile Leu Arg Arg Gln Ile Gly Thr  
135 100 105 110  
136 Arg Thr Pro Thr Val Glu Tyr Ile Cys Thr Gln Gln Asn Ile Leu Phe  
137 115 120 125  
138 Met Leu Leu Lys Gly Tyr Glu Ser Pro Glu Ile Ala Leu Asn Cys Gly  
139 130 135 140  
140 Ile Met Leu Arg Glu Cys Ile Arg His Glu Pro Leu Ala Lys Ile Ile  
141 145 150 155 160  
142 Leu Trp Ser Glu Gln Phe Tyr Asp Phe Phe Arg Tyr Val Glu Met Ser  
143 165 170 175  
144 Thr Phe Asp Ile Ala Ser Asp Ala Phe Ala Thr Phe Lys Asp Leu Leu  
145 180 185 190  
146 Thr Arg His Lys Leu Leu Ser Ala Glu Phe Leu Glu Gln His Tyr Asp  
147 195 200 205  
148 Arg Phe Phe Ser Glu Tyr Glu Lys Leu Leu His Ser Glu Asn Tyr Val  
149 210 215 220  
150 Thr Lys Arg Gln Ser Leu Lys Leu Leu Gly Glu Leu Leu Leu Asp Arg  
151 225 230 235 240  
152 His Asn Phe Thr Ile Met Thr Lys Tyr Ile Ser Lys Pro Glu Asn Leu  
153 245 250 255  
154 Lys Leu Met Met Asn Leu Leu Arg Asp Lys Ser Arg Asn Ile Gln Phe  
155 260 265 270  
156 Glu Ala Phe His Val Phe Lys Val Phe Val Ala Asn Pro Asn Lys Thr  
157 275 280 285  
158 Gln Pro Ile Leu Asp Ile Leu Leu Lys Asn Gln Ala Lys Leu Ile Glu  
159 290 295 300  
160 Phe Leu Ser Lys Phe Gln Asn Asp Arg Thr Glu Asp Glu Gln Phe Asn  
161 305 310 315 320  
162 Asp Glu Lys Thr Tyr Leu Val Lys Gln Ile Arg Asp Leu Lys Arg Pro  
163 325 330 335  
164 Ala Gln Gln Glu Ala  
165 340

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/018,483

DATE: 01/19/2002

TIME: 14:44:32

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01182002\J018483.raw

L:8 M:270 C: Current Application Number differs, Replaced Application Number

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:10 M:283 W: Missing Blank Line separator, <160> field identifier

PCT10

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/018,483

DATE: 01/14/2002  
TIME: 07:52:54

Input Set : A:\ES.txt  
Output Set: N:\CRF3\01142002\J018483.raw

Does Not Comply  
Corrected Diskette Needed

2 <110> APPLICANT: Merck Patent GmbH  
4 <120> TITLE OF INVENTION: Acute Neuronal Calcium Binding Protein  
6 <130> FILE REFERENCE: ANICBPJDWS  
8 <140> CURRENT APPLICATION NUMBER: US/10/018,483  
9 <141> CURRENT FILING DATE: 2001-12-19  
W 10 <160> NUMBER OF SEQ ID: 2  
12 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

116 <210> SEQ ID NO: 2  
117 <211> LENGTH: 341  
118 <212> TYPE: PRT  
119 <213> ORGANISM: HOMO sapiens  
121 <400> SEQUENCE: 2  
122 Met Pro Phe Pro Phe Gly Lys Ser His Lys Ser Pro Ala Asp Ile Val  
123 1 5 10 15  
124 Lys Asn Leu Lys Glu Ser Met Ala Val Leu Glu Lys Gln Asp Ile Ser  
125 20 25 30  
126 Asp Lys Lys Ala Glu Lys Ala Thr Glu Glu Val Ser Lys Asn Leu Val  
127 35 40 45  
128 Ala Met Lys Glu Ile Leu Tyr Gly Thr Asn Glu Lys Glu Pro Gln Thr  
129 50 55 60  
130 Glu Ala Val Ala Gln Leu Ala Gln Glu Leu Tyr Asn Ser Gly Leu Leu  
131 65 70 75 80  
132 Ser Thr Leu Val Ala Asp Leu Gln Leu Ile Asp Phe Glu Gly Lys Lys  
133 85 90 95  
134 Asp Val Ala Gln Ile Phe Asn Asn Ile Leu Arg Arg Gln Ile Gly Thr  
135 100 105 110  
136 Arg Thr Pro Thr Val Glu Tyr Ile Cys Thr Gln Gln Asn Ile Leu Phe  
137 115 120 125  
138 Met Leu Leu Lys Gly Tyr Glu Ser Pro Glu Ile Ala Leu Asn Cys Gly  
139 130 135 140  
140 Ile Met Leu Arg Glu Cys Ile Arg His Glu Pro Leu Ala Lys Ile Ile  
141 145 150 155 160  
142 Leu Trp Ser Glu Gln Phe Tyr Asp Phe Phe Arg Tyr Val Glu Met Ser  
143 165 170 175  
144 Thr Phe Asp Ile Ala Ser Asp Ala Phe Ala Thr Phe Lys Asp Leu Leu  
145 180 185 190  
146 Thr Arg His Lys Leu Leu Ser Ala Glu Phe Leu Glu Gln His Tyr Asp  
147 195 200 205  
148 Arg Phe Phe Ser Glu Glu Tyr Lys Leu Leu His Ser Glu Asn Tyr Val  
149 210 215 220  
150 Thr Lys Arg Gln Ser Leu Lys Leu Leu Gly Glu Leu Leu Leu Asp Arg  
151 225 230 235 240  
152 His Asn Phe Thr Ile Met Thr Lys Tyr Ile Ser Lys Pro Glu Asn Leu

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/018,483

DATE: 01/14/2002  
TIME: 07:52:55

Input Set : A:\ES.txt  
Output Set: N:\CRF3\01142002\J018483.raw

153	245	250	255
154	Lys Leu Met Met Asn Leu Leu Arg Asp Lys Ser Arg Asn Ile Gln Phe		
155	260	265	270
156	Glu Ala Phe His Val Phe Lys Val Phe Val Ala Asn Pro Asn Lys Thr		
157	275	280	285
158	Gln Pro Ile Leu Asp Ile Leu Leu Lys Asn Gln Ala Lys Leu Ile Glu		
159	290	295	300
160	Phe Leu Ser Lys Phe Gln Asn Asp Arg Thr Glu Asp Glu Gln Phe Asn		
161	305	310	315
162	Asp Glu Lys Thr Tyr Leu Val Lys Gln Ile Arg Asp Leu Lys Arg Pro		
163	325	330	335
164	Ala Gln Gln Glu Ala		
165	340		
E--> 169	- 3 -		

169 - 3 -

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/018,483

DATE: 01/14/2002

TIME: 07:52:56

Input Set : A:\ES.txt

Output Set: N:\CRF3\01142002\J018483.raw

L:8 M:270 C: Current Application Number differs, Replaced Application Number

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:10 M:283 W: Missing Blank Line separator, <160> field identifier

L:169 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2